

L7 ANSWER 29 OF 30 CAPLUS COPYRIGHT 2006 ACS on STN

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TI Polysaccharide from **molasses** having anti-cancer activity

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PA Kaken Chemical Co., Ltd.

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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI <u>JP 40024789</u>		<u>19651029</u>	JP	19631209

AB Molasses (1.2 kg.) is dialyzed into running H2O for 48 hrs. using cellophane membrane, the residual solution in the membrane is concentrated to

600

ml. in vacuo, and filtered. To the filtrate is added 500 g. (NH4)2SO4, the whole is kept overnight, and centrifuged. The resulting solid is dissolved in 1 l. H2O, dialyzed into running H2O to remove salts, concentrated, 50 ml. AcOH added, filtered, the filtrate is passed through a column of 200 ml. Duolite S-30 previously treated with 1 N AcOH, the resulting solution is concentrated in vacuo to 30 ml., and 120 ml. MeOH added to give 550 mg. pale yellow powder (I), nonhygroscopic, colorizing at 250° and decomposing at 280°. I is soluble in H2O but insol. in most of organic solvents. I is a polysaccharide mainly composed of hexose and pentose but containing no amino sugars. I inhibits growth of Ehrlich's cancer and sarcoma. I acetate, m. 165-70°, insol. in H2O, does not exhibit anti-cancer activity. Cf. following abstract